

ABSTRACT

There is provided a device and method for retransmitting error-detected data in a mobile communication system. A transmitter generates S sub-codes C_i ($i = 0, 1, 2, \dots, S-1$) from a physical layer packet (PLP) information stream using quasi-complementary turbo codes, initially transmits the first sub-code C_0 , and then sequentially transmits the following sub-codes each time a retransmission request is received for the initial transmission or a previous retransmission. Upon receipt of a retransmission request for the last sub-code C_{S-1} , the transmitter transmits the first sub-code C_0 and then sequentially transmits the following sub-codes each time a retransmission request is received.

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